

## Title (en)

INPUT DEVICE, CONTROL DEVICE, CONTROL SYSTEM, CONTROL METHOD, AND HAND-HELD DEVICE

## Title (de)

EINGABEVORRICHTUNG, STEUERUNGSVORRICHTUNG, STEUERUNGSSYSTEM, STEUERUNGSVERFAHREN UND TRAGBARE VORRICHTUNG DAFÜR

## Title (fr)

DISPOSITIF D'ENTRÉE, DISPOSITIF DE COMMANDE, SYSTÈME DE COMMANDE, ET DISPOSITIF PORTATIF À MAIN

## Publication

**EP 2189880 B1 20230329 (EN)**

## Application

**EP 08831231 A 20080916**

## Priority

- JP 2008066678 W 20080916
- JP 2007239863 A 20070914

## Abstract (en)

[origin: EP2189880A1] [Object] To provide an input apparatus, a control apparatus, a control system, and a control method that are capable of correcting an output signal when a hand movement is input to the input apparatus and with which a user does not feel a phase delay. [Solving Means] An input apparatus (1) includes a velocity calculation section (29), a filter (27), a control section (28), and a memory (26). The velocity calculation section (29) calculates velocity values of a casing (10) in X'- and Y'-axis directions based on physical amounts output from a sensor unit (17) like acceleration values in the X'- and Y'-axis directions output from an acceleration sensor unit (16). The filter (27) attenuates, by predetermined scale factors, velocity values of signals of the predetermined frequency range out of the velocity values calculated by the velocity calculation section (29). Since the filter (27) dynamically attenuates the velocity values of a shake frequency range in accordance with the velocity values, a precise pointing operation with a pointer (2) becomes possible.

## IPC 8 full level

**G06F 3/0346** (2013.01); **G06F 3/041** (2006.01)

## CPC (source: EP KR US)

**G06F 3/0346** (2013.01 - EP KR US); **G06F 3/038** (2013.01 - EP KR US)

## Citation (examination)

- US 2005253806 A1 20051117 - LIBERTY MATTHEW G [US], et al
- US 5453758 A 19950926 - SATO KAZUHIRO [JP]
- EP 1544720 A1 20050622 - SONY CORP [JP]

## Cited by

US9727152B2

## Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

## DOCDB simple family (publication)

**EP 2189880 A1 20100526; EP 2189880 A4 20160622; EP 2189880 B1 20230329**; CN 101641664 A 20100203; CN 101641664 B 20130612; JP 2013069349 A 20130418; JP 5201146 B2 20130605; JP WO2009035124 A1 20101224; KR 20100068335 A 20100623; TW 200925949 A 20090616; TW I391845 B 20130401; US 10747338 B2 20200818; US 2010103100 A1 20100429; US 2018107290 A1 20180419; US 9857885 B2 20180102; WO 2009035124 A1 20090319; WO 2009035124 A4 20090813

## DOCDB simple family (application)

**EP 08831231 A 20080916**; CN 200880008193 A 20080916; JP 2008066678 W 20080916; JP 2009532261 A 20080916; JP 2013010137 A 20130123; KR 20097018783 A 20080916; TW 97135297 A 20080912; US 201715840820 A 20171213; US 53117708 A 20080916